

Fig. 2

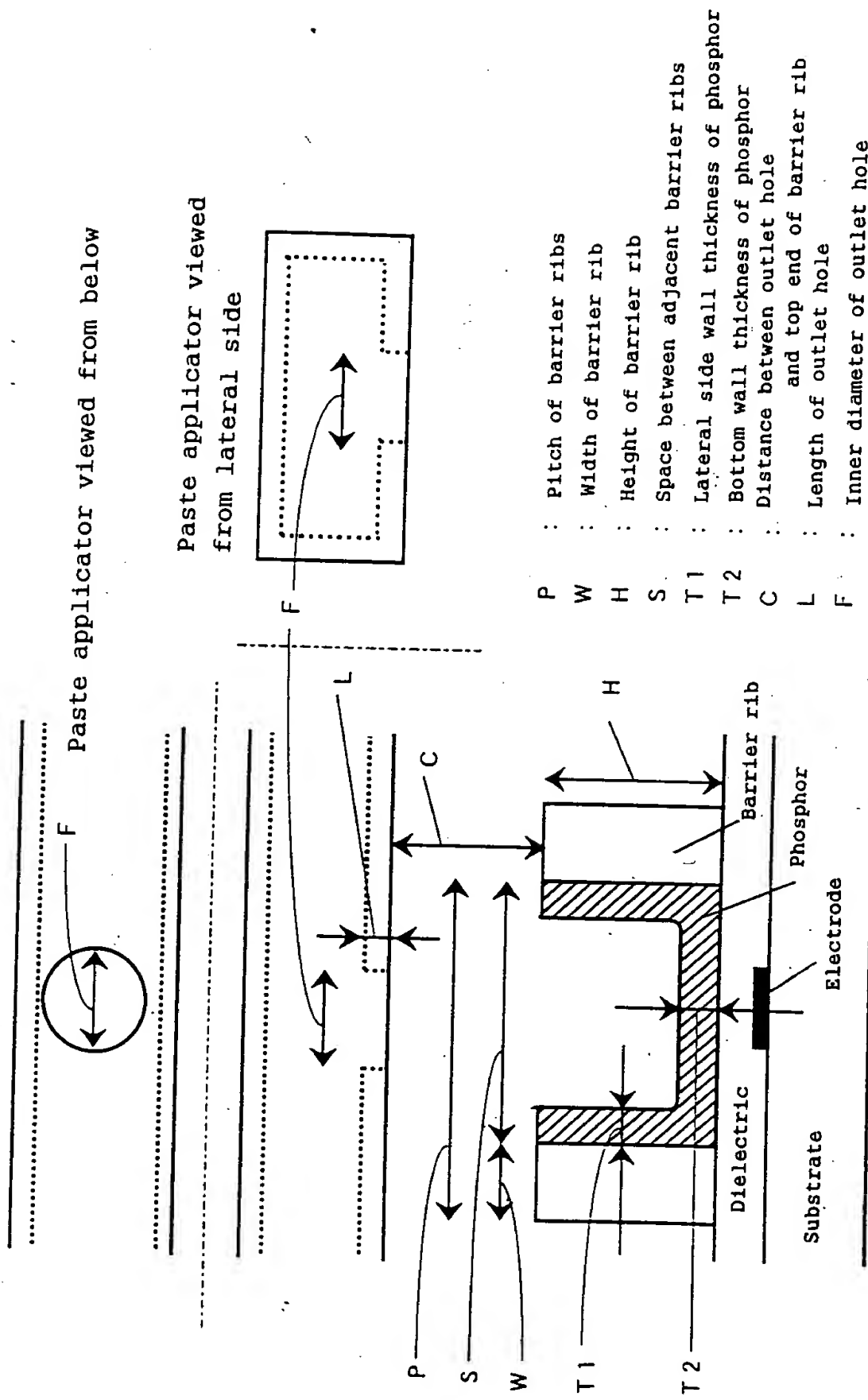
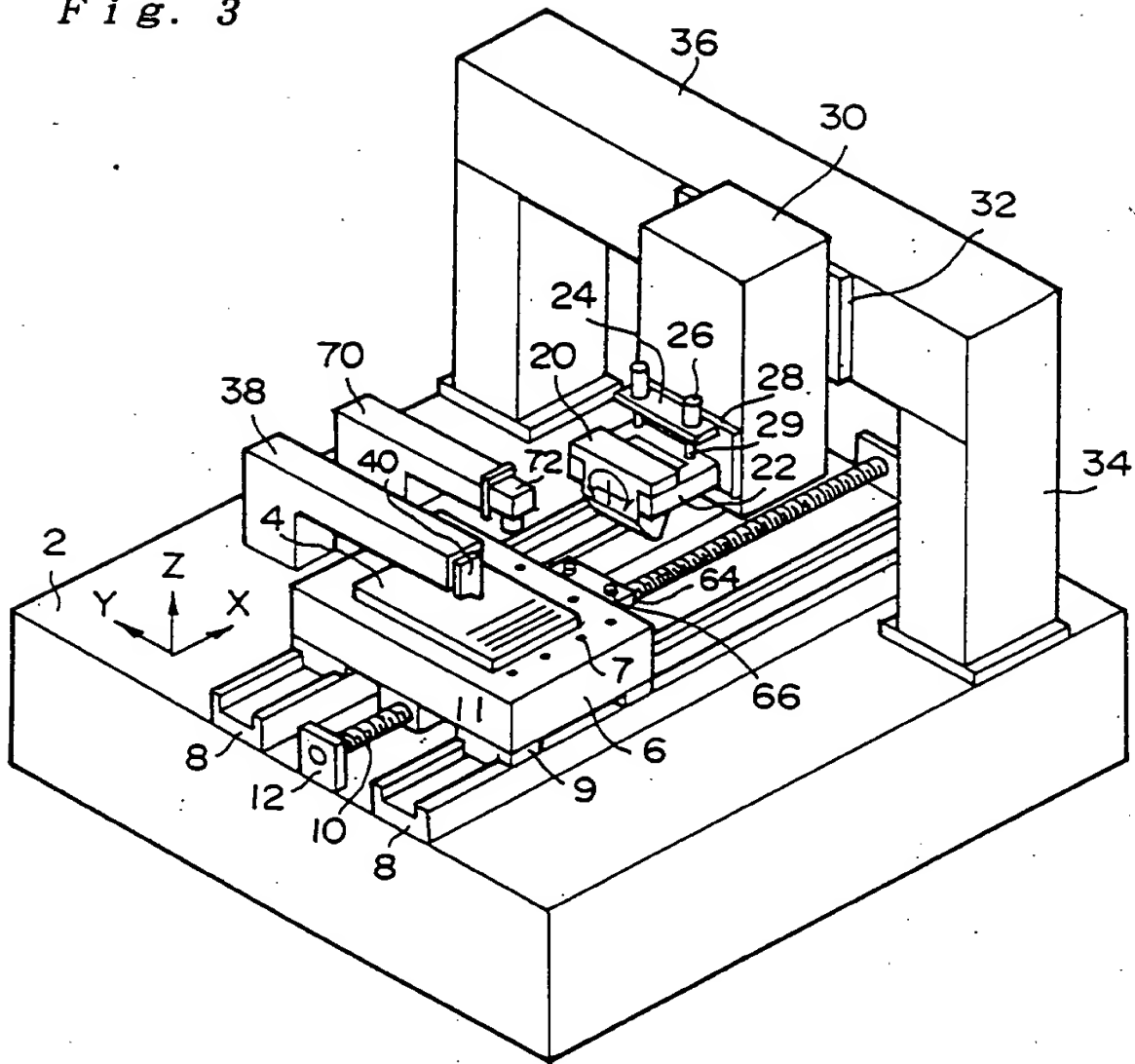


Fig. 3



The diagram illustrates a liquid crystal display (LCD) assembly with a liquid supply system. The main components include:

- Liquid Supply System:** A reservoir (56) at the top right feeds liquid through a valve (54) and a line (52) into a supply unit (50). From the supply unit, a line (48) with a valve (46) leads to a nozzle (42) mounted on a carriage (20). The nozzle is positioned to dispense liquid (44) onto a substrate (6).
- Substrate and Cell Structure:** The substrate (6) is a large rectangular block. Below it is a liquid crystal cell (10) with a grid of electrodes (12, 14, 16) and a common electrode (11). A layer (68) is also shown on the substrate.
- Control and Actuation:** A general controller (60) is connected to the image processor (74) and the motor controller (62). The motor controller (62) is connected to the actuator for the lift mechanism (76) and the actuator for the transverse moving mechanism (78). The lift mechanism (76) is connected to the substrate (6) via a vertical rod (12). The transverse moving mechanism (78) is connected to the substrate (6) via a horizontal rod (14).
- Image Processor:** The image processor (74) is connected to the liquid crystal cell (10) and the general controller (60).
- Supply Device Controller:** A supply device controller (58) is connected to the supply unit (50) and the general controller (60).

The diagram shows the flow of liquid from the reservoir through the supply unit and nozzle onto the substrate, and the electrical control system for the display and liquid supply mechanisms.

Fig. 5

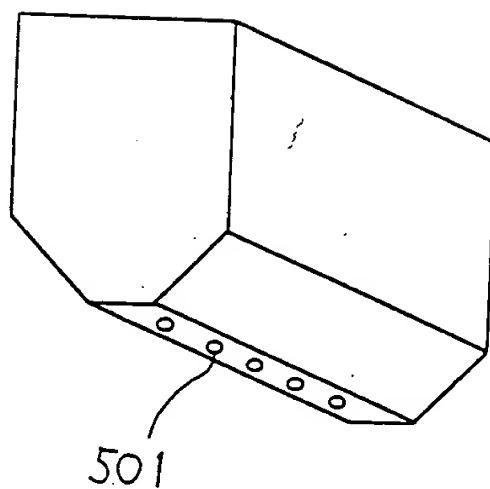


Fig. 6

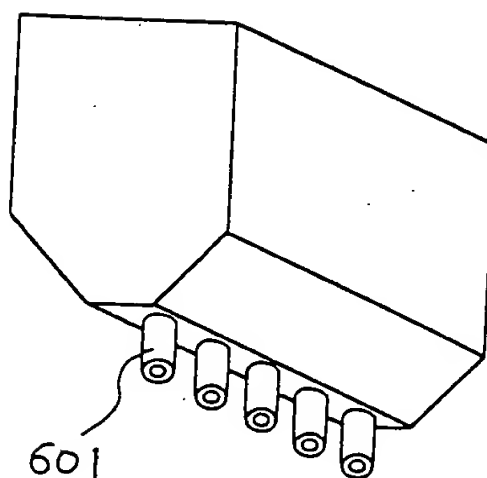


Fig. 7

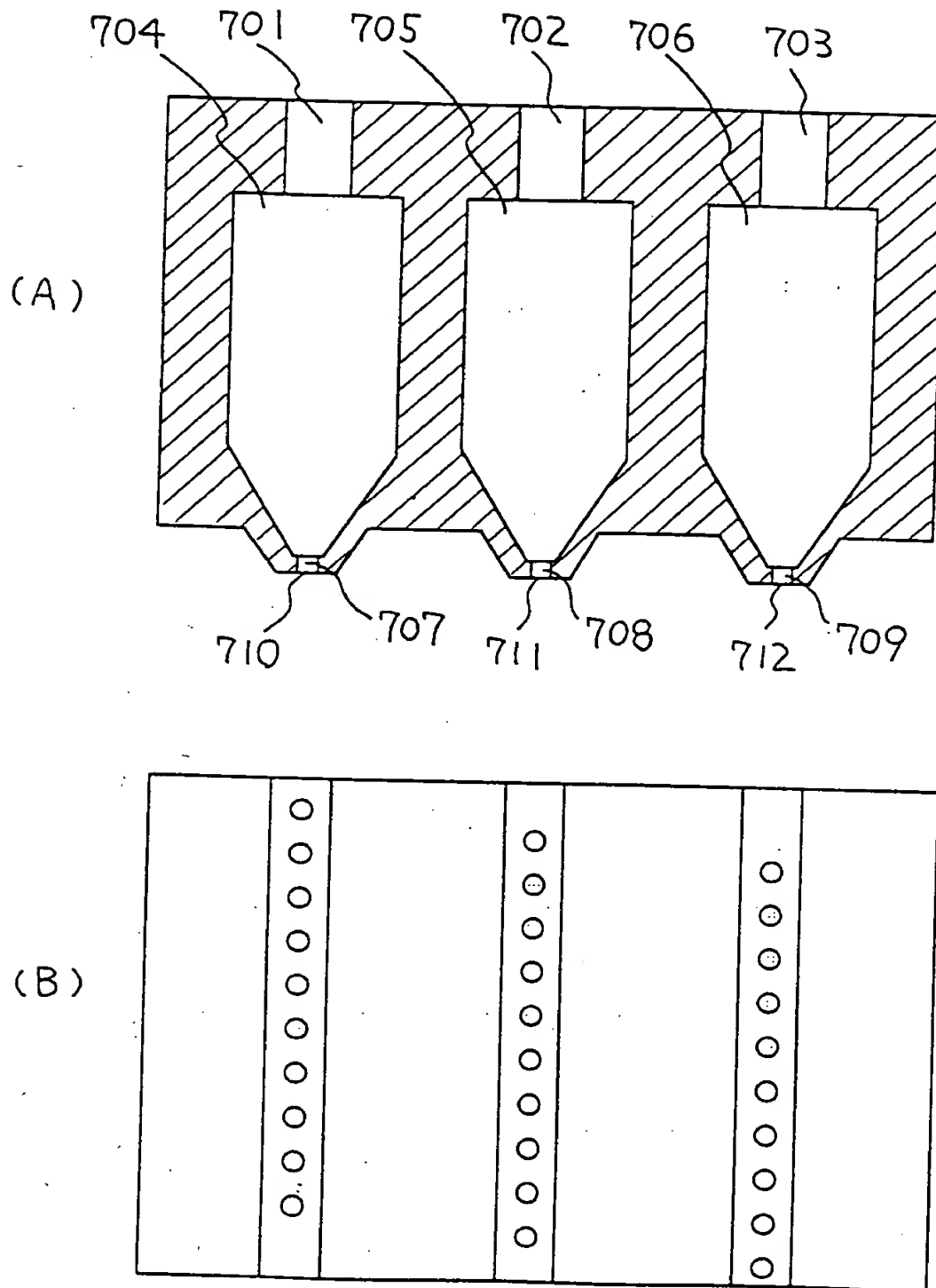


Fig. 8

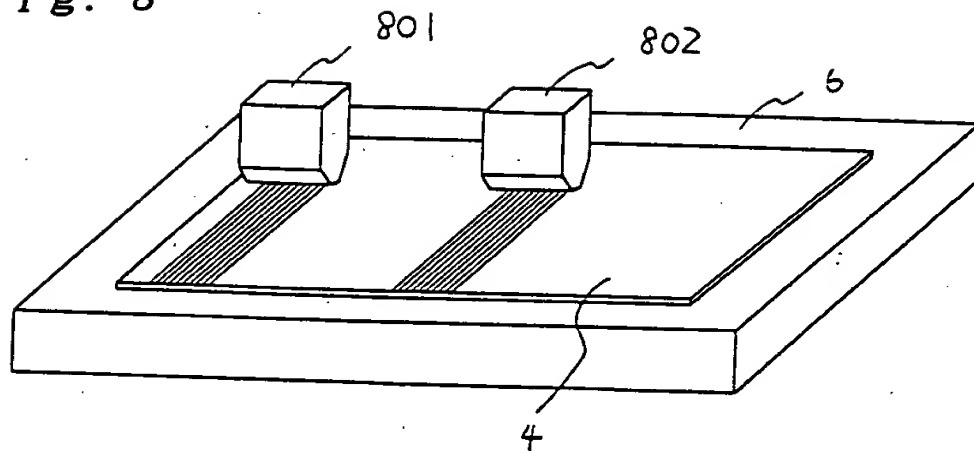


Fig. 9

